

Contents

NUMBER 1, MARCH

Lai Cai-gen: The Tremadoc Series of China	1
J. C. Bailey: Geochemistry and origin of hornblende-bearing xenoliths in the I-type Petford Granite, north-east Queensland	7
K. Lambeck: Structure and evolution of the Amadeus, Officer and Ngalia Basins of central Australia	25
L. P. Black and M. T. McCulloch: Sm-Nd ages of the Arunta, Tennant Creek and Georgetown Inliers of northern Australia	49
I. C. F. Stewart: Earthquake risk in South Australia using averaged seismic moment	61
B. G. Jones, P. F. Carr and C. G. Hall: The Early Devonian Tangerang Formation of the Marulan-Windellama region, NSW — definition and palaeo-environmental significance	75
A. C. Purvis: Metamorphosed altered komatites at Mount Martin, Western Australia—Archaean weathering products metamorphosed at the aluminosilicate triple point	91
E. J. Brock and C. R. Twidale: J. T. Jutson's contributions to geomorphological thought	107
L. P. Black: U-Pb zircon ages and a revised chronology for the Tennant Creek Inlier, Northern Territory	123
J. McPhie: Permo-Carboniferous silicic volcanism and palaeogeography on the western edge of the New England Orogen, north-eastern New South Wales	133
I. R. Pilmer: Malayaite and tin-bearing silicates from a skarn at Doradilla via Bourke, New South Wales	147
D. F. Branagan: Proterozoic palaeokarst at Torrowangee, western New South Wales?	155
Erratum	159

NUMBER 2, JUNE

A. J. Crawford, W. E. Cameron and R. R. Keays: The association of boninite low-Ti and andesite-tholeiite in the Heathcote Greenstone Belt, Victoria; ensimatic setting for the early Lachlan Fold Belt.	161
G. J. Drew and R. A. Both: The carbonate-hosted silver-lead deposits of the Ediacara mineral field, South Australia: petrological, fluid inclusion and sulphur isotope studies	177
P. M. Ashley: Piemontite-bearing rocks from the Olary district, South Australia	203
C. L. Fergusson: Tectono-stratigraphy of a Palaeozoic subduction complex in the central Coffs Harbour Block of north-eastern New South Wales	217
R. T. Pidgeon: Geochronological constraints on early volcanic evolution of the Pilbara Block, Western Australia	237
R. W. LeMaitre: A proposal by the IUGS Subcommittee on the Systematics of Igneous Rocks for a chemical classification of volcanic rocks based on the total alkali silica (TAS) diagram	243

NUMBER 3, SEPTEMBER

J. R. Richards and J. G. Blockley: The base of the Fortescue Group, Western Australia: further galena lead isotope evidence on its age	257
W. D. Birch: Quartz-topaz-loellingite rocks near Eldorado, Victoria	269
R. W. L. Kimber and A. R. Milnes: The extent of racemization of amino acids in Holocene and Pleistocene marine molluscs in southern South Australia: Preliminary data on a time-framework for calcrete formation	279
L. B. Collins and J. L. Baxter: Heavy mineral-bearing strandline deposits associated with high-energy beach environments, southern Perth Basin, Western Australia	287
I. R. Qureshi: Wollondilly-Blue Mountains Gravity Gradient and its bearing on the origin of the Sydney Basin	293
A. F. Wilson: Origin of quartz-free gold nuggets and supergene gold found in laterites and soils—a review and some new observations	303
W. M. Brown, T. A. P. Kwak and P. W. Askins: Geology and geochemistry of a F-Sn-W skarn system—The Hole 16 deposit, Mt Garnet, North Queensland, Australia	317
J. A. Webb and B. L. Finlayson: Allophane and opal speleothems from granite caves in south-east Queensland	343

NUMBER 4, DECEMBER

P. D. Fleming and A. J. R. White: Relationships between deformation and partial melting in the Palmer migmatites, South Australia	351
V. A. Schmidt, J. N. Jennings and B. Haosheng: Dating of cave sediments at Wee Jasper, New South Wales, by magnetostratigraphy	361
K. Lambeck and R. Coleman: Recent crustal deformation in south-east Australia: fact or fiction?	371
I. R. Plimer: The mineralogical history of the Broken Hill Lode, NSW	379
M. Sandiford and C. J. L. Wilson: The structural evolution of the Fyfe Hills-Khmara Bay region, Enderby Land, East Antarctica	403
B. D. Webby: Precambrian-Cambrian trace fossils from western New South Wales	427
M. A. Craig and M. C. Brown: Permian glacial pavements and ice movement near Moyhu, north-east Victoria	439
A. J. Stewart, R. D. Shaw and L. P. Black: The Arunta Inlier: a complex ensialic mobile belt in central Australia. Part 1: stratigraphy, correlations and origin	445
R. D. Shaw, A. J. Stewart and L. P. Black: The Arunta Inlier: a complex ensialic mobile belt in central Australia. Part 2: tectonic history	457
R. L. Hammond, B. W. Nisbet, M. A. Etheridge and V. J. Wall: The Litchfield Complex, north-west Northern Territory: Archaean basement or Proterozoic cover?	485

